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SHEETAL ENGINEERING ASSOCIATES

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Website : www.sheetalengineering.co.in



Aggregate Impact Value

IS: 2386 Part IV

Client	M/s, Vinyas Builders, Bangalore.
Job No.	SEAVB/QC REPORTS-2/2015-16
Name of Work	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	08.12.2014
Date of Testing	09.12.2014
Type of Sample	Wet Mix Macadam
Sample Source/Location	Sample Supplied by Client

SI No.	Details		Trial No.	
1	Wt. Of stone pieces(dry) passing IS Sieve 12.5mm but retained in IS Sieve 10mm(gm)	(Wa)	351	346
2	Wt. Of the fraction retained in IS Sieve 2.36mm after the impact test(gm)	(Wb)	248	253
3	Wt. Of the fraction Passed in IS Sieve 2.36mm after the impact test(gm)	(Wc)	103	93
4	Aggregate Impact value (%)	(Wc/Wa)100	29.34	26.88
5	Average Aggregate Impact value (%)		28.11	

Comments: Maximum allowable Aggregate Impact value for WMM is 30%



Note: a) This test report should not be reproduced except in full, without written approval of the laboratory b) The results indicated above are based on the tests carried out on the samples collected by the laboratory c) Any Query regarding the report must be reported immediately

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For Mtl.
10.12.2014

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Aggregate Impact Value

IS: 2386 Part IV

10.12.2014

Client	M/s, Vinyas Builders, Bangalore.
Job No.	SEA/VB/QC REPORTS-2/2015-16
Name of Work	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	08.12.2014
Date of Testing	09.12.2014
Type of Sample	Wet Mix Macadam
Sample Source/Location	Sample Supplied by Client

SI No.	Details		Trial No.	
	(Wa)	(Wb)	(Wc)	(Wc/Wa)100
1	Wt. Of stone pieces(dry) passing IS Sieve 12.5mm but retained in IS Sieve 10mm(gm)	Wt. Of the fraction retained in IS Sieve 2.36mm after the impact test(gm)	Wt. Of the fraction Passed in IS Sieve 2.36mm after the impact test(gm)	Aggregate Impact value (%)
2	342	248	98	28.32
3	342	253	89	26.02
4	Average Aggregate Impact value (%)		27.17	
5	Comments: Maximum allowable Aggregate Impact value for WMM is 30%			



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- AE W-12

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10.12.2014

Gradation for WMM
MORTH TABLE-400-11

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEAVB/QC REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	08.12.2014
Date of Testing	:	09.12.2014
Type of Sample	:	Wet Mix Macadam
Sample Source/Location	:	Sample Supplied by Client

Oven Dry Wt (gm):

11500 gm

Remarks	JOB MIX Gradation as per MORTH	% Passing	Cumulative % Retained	% Retained	Weight Retained, gm	Steve Size (mm)	Weight Retained, gm
	100	100	0	0	0	53.00	53.00
	95-100	96.98	3.02	3.02	347	45.00	45.00
	60-80	73.83	26.17	23.16	2663	22.40	22.40
	40-60	55.12	44.88	18.70	2151	11.20	11.20
	25-40	36.43	63.57	18.69	2149	4.75	4.75
	15-30	23.08	76.92	13.36	1536	2.36	2.36
	8-22	12.00	88.00	11.08	1274	0.600	0.600
	0-8	1.11	98.89	10.89	1252	0.075	0.075

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Page No. 12
Date 10.12.2014



Oven Dry Wt (gm):	11500	gm
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Gratation for WMM
NORTH TABLE-400-11

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Gratation for WMM
MORTH TABLE-400-11
10.12.2014

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEA/VB/QC REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	08.12.2014
Date of Testing	:	09.12.2014
Type of Sample	:	Wet Mix Macadam
Sample Source/Location	:	Sample Supplied by Client

Oven Dry Wt (gm): 11500 gm						
Remarks	JOB MIX Gratation as per MORTH	% Passing	Cumulative % Retained	% Retained	Weight Retained, gm	Sieve Size (mm)
Gratation satisfies MORTH specification Table 400-11	100	100	0	0	0	53.00
	95-100	97.09	2.91	2.91	335	45.00
	60-80	74.20	25.80	22.89	2632	22.40
	40-60	55.51	44.49	18.69	2149	11.20
	25-40	36.97	63.03	18.54	2132	4.75
	15-30	23.38	76.62	13.59	1563	2.36
	8-22	12.59	87.41	10.79	1241	0.600
	0-8	1.82	98.18	10.77	1239	0.075

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Paul N.K.
4th Dec 2014



Flakiness & Elongation Index

IS: 2386 Part I

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEAB/B/QC REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	08.12.2014
Date of Testing	:	09.12.2014
Type of Sample	:	Wet Mix Macadam
Sample Source/Location	:	Sample Supplied by Client

Sieve Size (mm)		FLAKINESS INDEX		ELONGATION INDEX	
Passing	Retained	A	B	C	D
		Wt.Of The Fraction Guaged(gm)	Wt.Of The Material Passing Through Flakiness Guage(gm)	Wt.Of The Fraction Guaged(gm)	Wt.Of The Material Retained Through Elongation Guage(gm)
63	50	50	-	-	-
50	40	1141	149	941	-
40	31.5	8852	1267	1547	-
31.5	25	4874	513	13581	1947
25	20	2862	378	2832	413
20	16	1875	314	1847	292
16	12.5	1247	163	1276	213
12.5	10	586	92	574	91
10	6.3	291	58	269	34
Total		20587	2785	22867	2990

NOTE : Minimum 200Pcs Should be Taken On each Fraction for Test

Flakiness Index % (B/A) X100 = 13.53
Elongation Index % : (D/C) X 100 = 13.08
Combined Flakiness & Elongation Index % = 26.60

Comments: Maximum allowable Combined Flakiness and Elongation Index for WMM is 30%

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Flakiness & Elongation Index
IS: 2386 Part I

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEA/VB/QC REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	08.12.2014
Date of Testing	:	09.12.2014
Type of Sample	:	Wet Mix Macadam
Sample Source/Location	:	Sample Supplied by Client

Sieve Size (mm)		FLAKINESS INDEX		ELONGATION INDEX	
Passing	Retained	Wt. Of The Fraction Guaged(gm)	A	Wt. Of The Material Passing Through Flakiness Guage(gm)	B
		Wt. Of The Fraction Guaged(gm)	C	Wt. Of The Fraction Guaged(gm)	D
63	50	-	-	-	-
50	40	1026	139	896	-
40	31.5	8847	1216	954	-
31.5	25	4835	581	13732	1947
25	20	2874	409	2837	438
20	16	1863	303	1898	316
16	12.5	1279	194	1267	185
12.5	10	560	86	574	98
10	6.3	248	59	296	42
Total		20506	2848	22454	3026

NOTE : Minimum 200Pcs Should be Taken On each Fraction for Test

Flakiness Index % (B/A) X100 = 13.89
Elongation Index % : (D/C) X 100 = 13.48
Combined Flakiness & Elongation Index % = 27.37

Comments: Maximum allowable Combined Flakiness and Elongation Index for WMM is 30%

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Aggregate Impact Value

IS: 2386 Part IV

11.12.2014

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEA/VB/QC REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	09.12.2014
Date of Testing	:	10.12.2014
Type of Sample	:	Wet Mix Macadam
Sample Source/Location	:	Sample Supplied by Client

SI No.	Details	1	2	Trial No.
1	Wt. Of stone pieces(dry) passing IS Sieve 12.5mm but retained in IS Sieve 10mm(gm)	(Wa)	353	346
2	Wt. Of the fraction retained in IS Sieve 2.36mm after the impact test(gm)	(Wb)	249	254
3	Wt. Of the fraction Passed in IS Sieve 2.36mm after the impact test(gm)	(Wc)	104	92
4	Aggregate Impact value (%)	(Wc/Wa)100	29.46	26.59
5	Average Aggregate Impact value (%)			28.03

Comments: Maximum allowable Aggregate Impact value for WMM is 30%

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Gratation for WMM
MORTH TABLE-400-11

Client	M/s, Vinyas Builders, Bangalore.
Job No.	SEAVB/QC REPORTS-2/2015-16
Name of Work	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	09.12.2014
Date of Testing	10.12.2014
Type of Sample	Wet Mix Macadam
Sample Source/Location	Sample Supplied by Client

Oven Dry Wt (gm):

11500 gm

Remarks	JOB MIX Gratation as per MORTH	% Passing	Cummulative % Retained	% Retained	Weight Retained, gm	Steve Size (mm)
	100	100	0	0	0	53.00
	95-100	97.03	2.97	2.97	341	45.00
	60-80	73.84	26.16	23.19	2667	22.40
	40-60	55.22	44.78	18.63	2142	11.20
	25-40	36.64	63.36	18.57	2136	4.75
	15-30	23.09	76.91	13.56	1559	2.36
	8-22	12.30	87.70	10.79	1241	0.600
	0-8	1.18	98.82	11.11	1278	0.075

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Gradation for WMM
MORTH TABLE-400-11

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEA/VB/QC REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	09.12.2014
Date of Testing	:	10.12.2014
Type of Sample	:	Wet Mix Macadam
Sample Source/Location	:	Sample Supplied by Client

Oven Dry Wt (gm): 11500 gm						
Sieve Size (mm)	Weight Retained, gm	% Retained	Cumulative % Retained	% Passing	JOB MIX Gradation as per MORTH	Remarks
53.00	0	0	0	100	100	Gradation satisfies MORTH specification Table 400-11
45.00	343	2.98	2.98	97.02	95-100	
22.40	2639	22.95	25.93	74.07	60-80	
11.20	2167	18.84	44.77	55.23	40-60	
4.75	2141	18.62	63.39	36.61	25-40	
2.36	1568	13.63	77.03	22.97	15-30	
0.600	1242	10.80	87.83	12.17	8-22	
0.075	1281	11.14	98.97	1.03	0-8	



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Gradation for WMM
MORTH TABLE-400-11

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEAV/B/QC REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	09.12.2014
Date of Testing	:	10.12.2014
Type of Sample	:	Wet Mix Macadam
Sample Source/Location	:	Sample Supplied by Client

Oven Dry Wt (gm):		11500 gm					
Sieve Size (mm)	Weight Retained, gm	% Retained	Cumulative % Retained	% Passing	JOB MIX Gradation as per MORTH	Remarks	Gradation satisfies MORTH specification Table 400-11
53.00	0	0	0	100	100		
45.00	316	2.75	2.75	97.25	95-100		
22.40	2648	23.03	25.77	74.23	60-80		
11.20	2161	18.79	44.57	55.43	40-60		
4.75	2174	18.90	63.47	36.53	25-40		
2.36	1516	13.18	76.65	23.35	15-30		
0.600	1243	10.81	87.46	12.54	8-22		
0.075	1281	11.14	98.60	1.40	0-8		

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For M/s

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Flakiness & Elongation Index

IS: 2386 Part I

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEA/VB/QC REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	09.12.2014
Date of Testing	:	10.12.2014
Type of Sample	:	Wet Mix Macadam
Sample Source/Location	:	Sample Supplied by Client

Sieve Size (mm)		FLAKINESS INDEX		ELONGATION INDEX	
Passing	Retained	Wt. Of The Fraction Guaged(gm)	Wt. Of The Material Passing Through Flakiness Guage(gm)	Wt. Of The Fraction Guaged(gm)	Wt. Of The Material Retained Through Elongation Guage(gm)
63	50	-	-	-	-
50	40	1039	136	894	-
40	31.5	8861	1227	951	-
31.5	25	4834	589	13736	1952
25	20	2842	406	2832	441
20	16	1889	294	1894	328
16	12.5	1276	196	1272	192
12.5	10	569	81	561	106
10	6.3	245	54	253	57
Total		21555	2847	22393	3076

NOTE : Minimum 200Pcs Should be Taken On each Fraction for Test

Flakiness Index % (B/A) X100 = 13.21
Elongation Index % : (D/C) X 100 = 13.74
Combined Flakiness & Elongation Index % = 26.94

Comments: Maximum allowable Combined Flakiness and Elongation Index for WMM is 30%

Note: a) This test report should not be reproduced except in full, without written approval of the laboratory b) The results indicated above are based on the tests carried out on the samples collected by the laboratory c) Any Query regarding the report must be reported immediately

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Test Report on Bitumen

IS: 73: 2013

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEA/VB/QC-REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	14.01.2015
Date of Testing	:	15.01.2015
Type of Mix	:	Bituminous Concrete
Sample Source	:	Sample Supplied by Client

The results of the tests conducted on the bitumen sample using for Bituminous Concrete are as follows:

Sl. No	Description	Test Result	Requirement as per IS:73:2013 Table No. 1
1	Penetration at 25°C, 100g, 5s, 0.1mm, Min	65	60
2	Softening point, R&B °C, Min	58	45
3	Ductility at 25°C, cm Min	>100	50
4	Flash Point, °C, Min	275	220

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For N.E. - A.F. will

SHEETAL ENGINEERING ASSOCIATES, BANGALORE.

16.01.2015

Stripping Value of Road Aggregates (Static Immersion Test)
As per IS: 6241-1971, RA-2013

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEA/B/QC REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	14.01.2015
Date of Testing	:	15.01.2015
Type of Mix	:	Bituminous Concrete
Sample Source/Location	:	Sample Supplied by Client

Sample No	Sample taken 20mm passing & 12.5 mm Retained in gm	% of 60/70 Bitumen Added by Wt	Liquid Used for Testing	Testing Temperature	Result	Specified Limits(%)
1	200	5.0%	Water	40° C	No Striping	Min Retained coating 95%
2	200	5.0%	Water	40° C	No Striping	Min Retained coating 95%
3	200	5.0%	Water	40° C	No Striping	Min Retained coating 95%

Note: a) This test report should not be reproduced except in full, without written approval of the laboratory

b) The results indicated above are based on the tests carried out on the samples collected by the laboratory
c) Any Query regarding the report must be reported immediately

[Signature]

Paul M.C.



16.01.2015

Aggregate Impact Value
IS: 2386 (Part IV) 1963, RA-2011

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEA/B/QC REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	14.01.2015
Date of Testing	:	15.01.2015
Type of Mix	:	Bituminous Concrete
Sample Source	:	Sample Supplied by Client

SI No.	Details		Trial No.	
1	Total weight of aggregate sample filling the cylindrical measure	= W_1 g	365	363
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	82	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	283	274	
4	Aggregate impact value = percent fines	22.47	24.52	
4	$100 * (W_2/W_1)$ percent			
5	AVERAGE		23.49	

Comments: Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

Note: a) This test report should not be reproduced except in full, without written approval of the laboratory

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c) Any Query regarding the report must be reported immediately



16.01.2015

SHEETAL ENGINEERING ASSOCIATES, BANGALORE.

Aggregate Shape Test
IS: 2386 (Part I) 1963, RA-2011

Client	:	M/s, Vinyas Builders, Bangalore.
Job No.	:	SEA/VB/QC REPORTS-2/2015-16
Name of Work	:	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	:	14.01.2015
Date of Testing	:	15.01.2015
Type of Mix	:	Bituminous Concrete
Sample Source	:	Sample Supplied by Client

Size of Aggregates		Passing through IS sieve, mm	Retained on IS sieve, mm	Weight of Fraction consisting of atleast 200 pieces, g	Thickness guage size, mm	Weight of aggregate in thickness guage, g	Length guage size, mm	Weight of aggregate in length guage, g
63	50	W ₁	0	33.9	W ₁	0	--	X ₁
50	40	W ₂	0	27	W ₂	0	81	X ₂
40	31.5	W ₃	0	21.5	W ₃	0	64.4	X ₃
31.5	25	W ₄	0	16.95	W ₄	0	--	X ₄
25	20	W ₅	0	13.5	W ₅	0	40.5	X ₅
20	16	W ₆	0	10.8	W ₆	0	32.4	X ₆
16	12.5	W ₇	1342	8.55	W ₇	287	25.6	X ₇
12.5	10	W ₈	590	6.75	W ₈	78	20.2	X ₈
10	6.3	W ₉	600	4.89	W ₉	66	14.7	X ₉

Flakiness Index
17.02%
Elongation Index
10.35%
Combined Flakiness & Elongation Index
27.37%

Comments: Maximum allowable Combined Flakiness and Elongation Index for Bituminous Concrete is 30%
Note: a) This test report should not be reproduced except in full, without written approval of the laboratory
b) The results indicated above are based on the tests carried out on the samples collected by the laboratory
c) Any Query regarding the report must be reported immediately



Sheetal Engineering Associates
Bangalore
Est. 1985

Signature

16.01.2015

16.01.2015

Specific Gravity And Water Absorption Test
IS: 2386 (Part III) 1963, RA-2011

Client	M/s, Vinyas Builders, Bangalore.
Job No.	SEAVB/QC REPORTS-2/2015-16
Name of Work	Pot Holes Filling in ward No. 12 in Shettyhalli Sub Division.
Date of Sampling	14.01.2015 -
Date of Testing	15.01.2015
Type of Mix	Bituminous Concrete
Sample Source/Location	Sample Supplied by Client

Sl. No.	Details	Notation	Test Number		Mean Value
			Test 1	Test 2	
1	Weight of aggregate suspended in water with the basket	W1 g	2025	2025	
2	Weight of basket suspended in water	W2 g	760	760	
3	Weight of saturated aggregate in water	(W1 - W2) = Ws g	1265	1265	
4	Weight of saturated surface dry aggregate in air	W3 g	2000	2000	
5	Weight of water equal to the volume of the aggregate	(W3 - Ws) g	735	735	
6	Weight of oven dried aggregate	W4 g	1989	1992	
The tests are					
Specific Gravity	W4/(W3-Ws)		2.706	2.710	2.708
Apparent Specific gravity	W4/(W4-Ws)		2.747	2.740	2.744
Water Absorption	((W3-W4)*100)/W4		0.55%	0.40%	0.48%

Comments: Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

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c) Any Query regarding the report must be reported immediately



Date: 16.01.2015
By: [Signature]

[Signature]